## AMENDMENTS TO THE CLAIMS

- 1-76. (canceled)
- 77. (new) A system for recharging and communicating with an implantable medical device having a rechargeable battery, comprising:
  - a charging coil for inductively charging the rechargeable battery within the implantable medical device when the rechargeable battery is not depleted to zero volts;
  - a booster coil, wherein the booster coil is configured to operate temporarily to recover the implantable medical device when the rechargeable battery is depleted to zero volts.
- 78. (new) The system of claim 77, wherein the charging coil also communicates with the implantable medical device.
- (new) The system of claim 78, wherein the charging coil communicates with the implantable medical device using FSK telemetry.
- 80. (new) The system of claim 78, wherein the charging coil communicates with the implantable medical device using on-off keying (OOK).
- (new) The system of claim 77, further comprising current measuring circuitry for determining power consumption in the charging coil.

- 82. (new) The system of claim 77, further comprising a printed circuit board (PCB) coupled to the charging coil and to the booster coil.
- 83. (new) The system of claim 82, further comprising sensing circuitry on the PCB for sensing temperature.
- 84. (new) The system of claim 83, further comprising automatic power shut-off circuitry for automatically shutting off power to the charging coil when the sensed temperature exceeds a predetermined level.
- 85. (new) The system of claim 77, further comprising automatic power shut-off circuitry for automatically shutting off power to the charging coil when power consumption through the charging coil exceeds a predetermined level.
- 86. (new) The system of claim 77, further comprising automatic power shut-off circuitry for automatically shutting off power to the booster coil when power consumption through the booster coil exceeds a predetermined level.
- 87. (new) The system of claim 77, wherein the booster coil has a plurality of turns of wire in a plurality of layers wrapped around a coil spool.
- (new) The system of claim 77, wherein the charging coil and the booster coil are contained in a housing.
- 89. (new) The system of claim 88, wherein the housing comprises a chair pad.
- 90. (new) The system of claim 88, further comprising a base station coupled to the housing.
- 91. (new) The system of claim 88, wherein the housing is comprised of a compliant material.

- (new) The system of claim 88, further comprising an exterior slipcover that surrounds the housing.
- 93. (new) The system of claim 77, further comprising a coil assembly containing the booster coil and the charging coil.
- 94. (new) The system of claim 93, wherein the booster coil and charging coil are wound over a spool coil.
- 95. (new) A system for recharging and communicating with an implantable medical device having a rechargeable battery, comprising:
  - a housing, comprising;
    - a charging coil for inductively charging the rechargeable battery within the implantable medical device when the rechargeable battery is not depleted to zero volts;
    - a booster coil, wherein the booster coil is configured to operate temporarily to recover the implantable medical device when the rechargeable battery is depleted to zero volts; and
  - a base station coupled to the housing by a cable for controlling the charging coil and the booster coil.
- (new) The system of claim 95, wherein the charging coil also communicates with the implantable medical device.
- 97. (new) The system of claim 96, wherein the charging coil communicates with the implantable medical device using FSK telemetry.
- 98. (new) The system of claim 96, wherein the charging coil communicates with the implantable medical device using on-off keying (OOK).

- (new) The system of claim 95, further comprising current measuring circuitry for determining power consumption in the charging coil.
- 100. (new) The system of claim 95, further comprising a printed circuit board (PCB) coupled to the charging coil and to the booster coil.
- 101. (new) The system of claim 100, further comprising sensing circuitry on the PCB for sensing temperature.
- 102. (new) The system of claim 101, further comprising automatic power shut-off circuitry for automatically shutting off power to the charging coil when the sensed temperature exceeds a predetermined level.
- 103. (new) The system of claim 95, further comprising automatic power shut-off circuitry for automatically shutting off power to the charging coil when the power consumption through the charging coil exceeds a predetermined level.
- 104. (new) The system of claim 95, further comprising automatic power shut-off circuitry for automatically shutting off power to the booster coil when the power consumption through the booster coil exceeds a predetermined level.
- 105. (new) The system of claim 95, wherein the booster coil has a plurality of turns of wire in a plurality of layers wrapped around a coil spool.
- 106. (new) The system of claim 95, wherein the housing comprises a chair pad.
- 107. (new) The system of claim 95, wherein the housing is comprised of a compliant material.
- 108. (new) The system of claim 95, further comprising an exterior slipcover that surrounds the housing.

109. (new) The system of claim 95, further comprising a coil assembly containing the booster coil and the charging coil.